

SECTION B-B

NOTE: TAPERED SLEEVE SHALL BE FIRMLY WEDGED INTO PIPE

END BEFORE BACKFILLING PIPE PAY LENGTH.

**** NO SAFETY SLOPE END SECTION REQUIRED FOR SINGLE PIPE INSTALLATION WITH PIPES 21 INCH DIAMETER OR LESS.

60 92 4:1 176 6:1 264 66 98 4:1 200 6:1 300

GENERAL NOTES:

END SECTIONS INCLUDING ALL BOLTS, NUTS, RODS AND STRAPS SHALL BE FABRICATED FROM GALVANIZED STEEL MEETING THE REQUIREMENTS OF SECTION 1020 THE STANDARD SPECIFICATIONS.

ALL BOLTS UNLESS OTHERWISE SHOWN SHALL BE A307 BOLTS.

SAFETY SLOPE END SECTION WITH OPTIONAL SAFETY BAR SYSTEM.

NOTE: SEE DRIVEWAY STANDARD PLANS FOR BEVELED END SECTION REQUIREMENT.

WHEN REQUIRED, OPTIONAL TOE PLATE EXTENSION SHALL BE PUNCHED OR DRILLED AND BOLTED TO END SECTION TOE PLATE. STEEL FOR TOE PLATE EXTENSION SHALL BE SAME GAUGE AS END SECTION. DIMENSIONS SHALL BE OVERALL WIDTH LESS 6' BY 8" HIGH.

ATTACHMENT TO CIRCULAR PIPES 15" THROUGH 24" DIAMETER SHALL BE MADE WITH TYPE #1 STRAPS. ALL OTHER SIZES SHALL BE ATTACHED WITH TYPE #2 CONNECTORS.

SAFETY BARS AND LONGITUDINAL BARS SHALL BE FABRICATED FROM STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53 SCHEDULE 40 SPECIFICATIONS. SAFETY BARS AND LONGITUDINAL BARS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1020 OF STANDARD SPECIFICATIONS.

INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 725 AND 732 OF THE STANDARD SPECIFICATIONS.

SLOTTED HOLES FOR SAFETY BAR ATTACHMENT SHALL BE PROVIDED FOR ALL END SECTIONS.

MINOR VARIATIONS OF DETAIL WILL BE ACCECTED TO PERMIT THE USE OF A MANU-FACTURER'S STANDARD METHODS OF FABRICATION.

END SECTIONS FABRICATED FROM THICKER METAL THAN INDICATED WILL BE ACCEPTED.

SAFETY BARS ARE OPTIONAL FOR PIPES WITH DIAMETERS OF LESS THAN 21".

ALL PIPES WITH DIAMETERS GREATER THAN 21" CONSTRUCTED WITHIN THE 10:1 APPROACH SLOPE OF ANY BULLNOSE GUARDRAIL SYSTEM SHALL HAVE SAFETY SLOPE END SECTION PROTECTION.

ALL BOLTS SHALL BE 3 DIAMETER AND GALVANIZED, UNLESS OTHERWISE SHOWN.

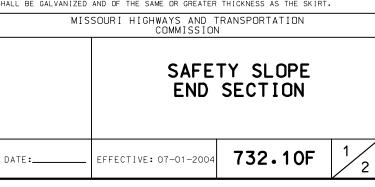
SKIRT SECTION IS DEFINED AS THE FLARED PORTION OF THE END SECTION INCLUDING SIDE AND BOTTOM (CENTER) PANELS AND APRON.

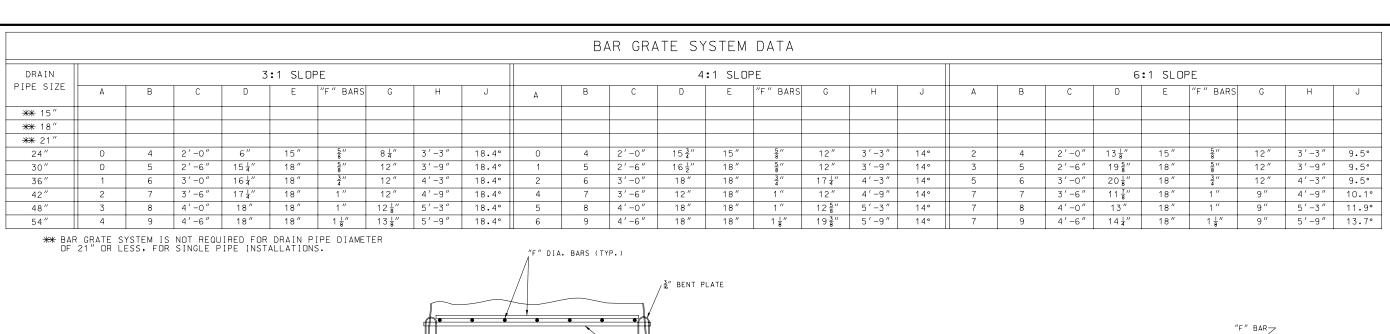
SKIRT SECTION FOR 12" TROUGH 24" PIPES SHALL BE MADE IN ONE PIECE.

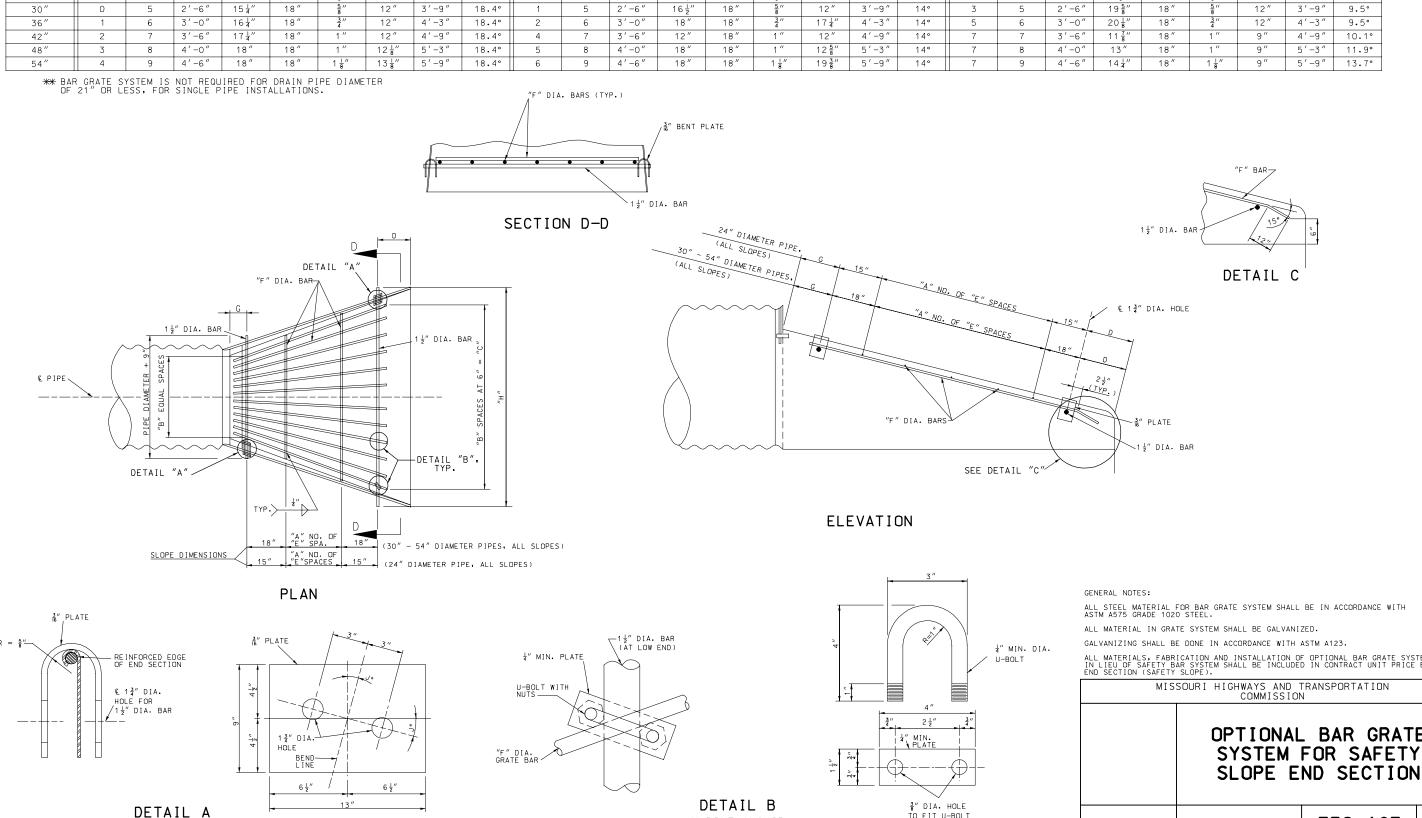
SKIRT SECTIONS FOR 30" AND LARGER PIPES MAY BE MADE FROM UP TO 2 SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE

SKIRT SECTIONS FROM 48" AND LARGER PIPES MAY BE MADE FROM UP TO 3 SHEETS JOINED BY RIVETING OR BOLTING EQUAL DISTANCE FROM CENTERLINE.

ALL 3 PIECE SKIRTS FOR 60" PIPES SHALL HAVE 0.109" THICK SIDES AND 0.138" THICK BOTTOM (CENTER) PANELS. WIDTH OF BOTTOM PANELS SHALL BE GREATER THAN 20% OF THE PIPE PERIPHERY CONNECTOR SECTION. CORNER PLATES AND TOE PLATES SHALL BE GALVANIZED AND OF THE SAME OR GREATER THICKNESS AS THE SKIRT.







BENT PLATE ANCHOR

